



# 3280 Ruggedized Remote Mobile Gateway

**Transportable** broadband network **access virtually anywhere.**

Tachyon's new 3280 Series Remote Mobile Gateways redefine transportable satellite networks, with a flexible, compact form factor that is ruggedized to withstand the harshest environmental conditions. The 3280 RMG fully integrates Cisco's industry-leading enterprise router and switch technologies with Tachyon's enterprise VSAT modem to provide broadband access, mobility, and interoperability across multiple wired and wireless networks. The result: secure data, voice, and video communications in both mobile and outdoor embedded networks. The 3280 RMG's standards-based Mobile IP also delivers transparent roaming for full coverage over wide geographic areas, and seamlessly combines Tachyon's guaranteed QoS-based services with Cisco's IPICS interoperability suite.

## Key Product Features

- **Rugged 100 Mbps full-duplex VSAT router** with a modular compact form factor, specifically designed and tested to withstand extreme temperatures, high altitude, shock, vibration, and exposure to damp, wet or dusty environments. Traffic classification and prioritization provides toll-quality, guaranteed IP telephony
- **Sealed enclosure** that uses conductive cooling (no internal fans) meeting a wide range of environmental specifications, including MIL-STD810F, MIL-STD-461E, NEMA-4 and SAE (J1211 and J1455) standards
- **Standards-based TCP/IP connectivity** for a wide range of LANs and WANs, wired or wireless links, including DVB-S2 VSAT, DVB-H WMAN and 2.4GHz & 4.9 GHz wireless capabilities
- **Always-on broadband wireless access** for vehicle networks with easy mobility through Mobile IP, regardless of location or movement
- **Advanced IP services** and interoperability through standards-based Cisco IOS Software, offering excellent network security, reliability, quality of service (QoS), and remote management functions



# 3280 Remote Mobile Gateway Product Specifications

Satellite WAN		Description	
Network Topology	STAR (TDM / Multi-Rate, Multi-Frequency TDMA) and Point-to-Point SCPC		
Symbol Rates	Downstream: 1MSps – 45MSps Upstream: 64kSps – 8MSps Up to 45MSps point-to-point Full-Duplex (SCPC Mode)		
Modulation	DVB-S/S2 (QPSK, 8-PSK, 16-APSK, 32-APSK)		
IP Data Rates	Downstream: 1Mbps – 100Mbps Upstream: 64kbps – 100Mbps		
FEC	Downstream: DVB-S/S2 Reed Solomon / Viterbi & LDPC/BCH Rate Selectable	Upstream: Proprietary, LDPC/BCH, Turbo Product Code Rate Selectable	
Frequencies	IF Band: L-Band	RF Bands: C, Ka, Ku & X-Band	
Physical	3283 RMG	3288 RMG	CI-1380 1RU
Height	149.9 mm (5.9 in.)	149.8 mm (5.9 in.)	44.45 mm (1.75 in.)
Width	172.7 mm (6.8 in.)	172.2 mm (6.8 in.)	482.6 mm (19 in.)
Depth	203.2 mm (8.0 in.)	416.6 mm (16.4 in.)	355.6 mm (14 in.)
Weight	6.441 kg (14.2 lb)	8.6 kg (18.9 lb)	6.8 kg (15 lb)
Environmental		Description	
Operating Temperature	-40°C to +75°C NEMA 4 compliant; Rugged Chassis		
Input Voltage	24VDC (3280) 100 ~ 240VAC, 50-60Hz, Auto Sensing (CI-1380)		
Interfaces		Description	
SatComm	Tx: F-type (CI-1380) TNC (3283 & 3288 RMG's) 950 – 1450 MHz		
	Rx: F-type (CI-1380) TNC (3283 & 3288 RMG's) 950 – 2150 MHz		
Available BUC Power	+24VDC, up to 3Amps, nominal @ IFL (supports up to 5W BUC with no external power)		
Available LNB Power	+24VDC, nominal @ IFL		
Data Interfaces		Description	
3283 RMG	RJ-45: 4 x 10/100 Ethernet ports Wireless 2 x 802.11 b/g (2.4GHz & 4.9GHz)		
3288 RMG	RJ-45: 8 x 10/100 Ethernet ports Wireless 3 x 802.11 b/g (2.4GHz & 4.9GHz) 2 x 10/100/1000 Gigabit Ethernet Ports (2 copper or 1 copper & 1 Fibre)		
CI-1380 1RU	RJ-45: 8 x 10/100 Ethernet ports Wireless 802.11 b/g (2.4GHz & 4.9GHz) 2 x 10/100/1000 Gigabit Ethernet Ports (2 copper or 1 copper & 1 Fibre)		

Call **1-877-589-FAST** and learn how Tachyon can extend your network everywhere.

**Tachyon Networks Incorporated**  
9339 Carroll Park Drive, Suite 150  
San Diego, CA 92121 USA  
T: +1 858.882.8100  
F: +1 858.882.8122

**Tachyon Europe B.V.**  
Orly Plaza Building, 149 Orlyplein  
1043 DV Amsterdam, The Netherlands  
T: +31 20 581 7790  
F: +31 20 682 2578

